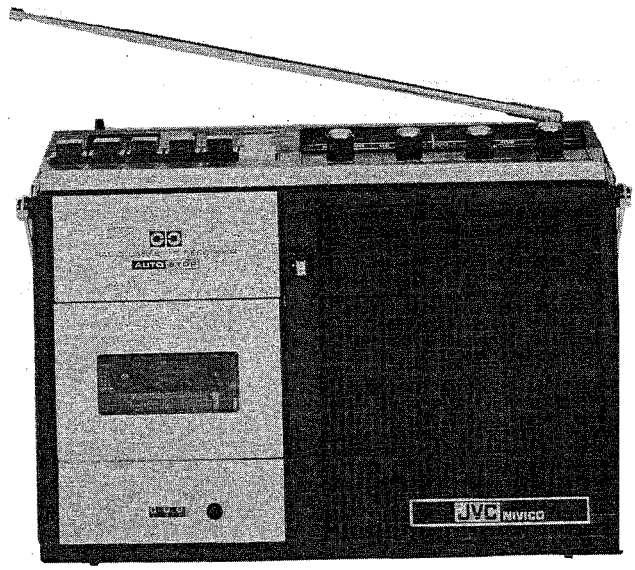
JVC NIVICO

No. 1221-B

SERVICE MANUAL



MODEL 9405LS, RS (Revised Edition)

12-TRANSISTOR FM-AM 3-BAND RADIO CASSETTE RECORDER

DIMENSIONS : H-18.7 cm, W-28 cm, D-7.8 cm **WEIGHT :** 2.7 kg (with Batteries)

SPECIFICATIONS

Frequency Range :	FM 88~ 108MHz MW 540~1600kHz LW 150~ 350kHz (9405LS) SW 6~ 18MHz (9405RS)
Intermediate Frequency :	FM 10.7MHz AM 455kHz
Antenna :	FM/SW Rod Antenna SW/MW/LW Ferrite Core Antenna
Speaker :	4" PM Dynamic Speaker
Output Power :	2W
Tone Control :	Continuous
Jacks :	Earphone, Remote Switch Microphone, DIN AC Input, External DC Input

TAPE RECORDER SECTION	
Frequency Response :	50~10000Hz
Tape Speed :	1-7/8 ips.
Track System :	2 — track
Monitor :	Sound Monitor System
Recording System :	AC bias
Erasing System :	DC erasing
FF Time :	Within 140 Sec (C-60)
Rewinding Time :	Within 100 Sec (C-60)
Wow & Flutter :	Less than 0.3%
POWER SOURCE	
DC :	6V 4 pcs of UM-2 or Size ASA designation C Cell or equivalent
AC :	110/220V, 50/60Hz

VICTOR COMPANY OF JAPAN, LIMITED.

TO REMOVE CHASSIS

REMOVE THE REAR CABINET

Remove two screws A & B (SHBP3008RS) installed on both the left and right sides of the cabinet, 2 screws C & D (SDBP3010RS) on the back and 2 screws E (SDBP3010RS) and F (SBSB3010Z) in the battery compartment, then the rear cabinet can be removed.

REMOVE THE CASSETTE MECHANISM CHASSIS

1. Remove the screw G (SHBP3012BS) on the left side of the cabinet, the screw H (SBSB3008C) and 2 studs I & J (V41576-2S)
2. Disconnect two 6 — pin plugs, and desolder the lead wires from the condenser microphone, level meter, speaker, the blue wire from the REMOTE jack and the twin wire from the leaf switch, and disconnect 3 tabs of the shield wire from the AUX jack, then the chassis can be taken out.

REMOVE THE TUNER CHASSIS

1. Remove 5 screws (K~N: SBSB3008C, O : SPSP2606C).
2. Disconnect two 6 — pin plugs and 3 tabs of the shield wire from the AUX jack, and desolder the twin wire connected to the power supply circuit board, then the chassis can be taken out.

REMOVE THE POWER SUPPLY CIRCUIT BOARD

Remove 3 screws P ,Q & R (SBSB3008C).

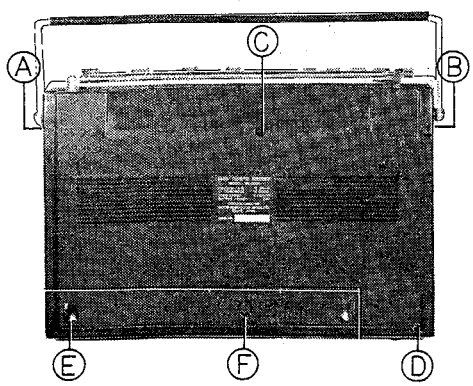


Fig.1

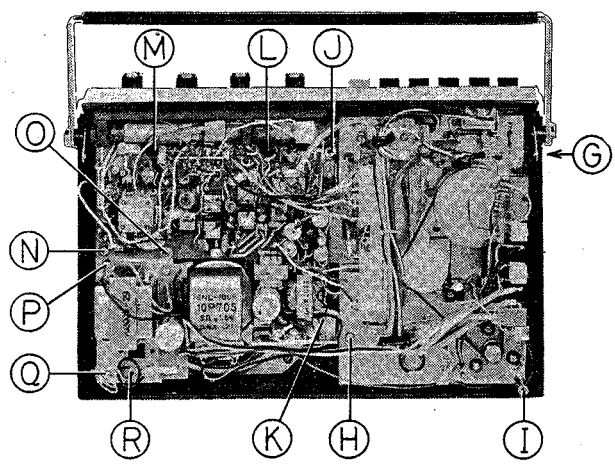


Fig. 2

TO FIT THE DIAL CORD

1. Fit the cord in accordance with the arrow mark while setting the V. Capacitor on minimum.
2. Cord length : 640 mm

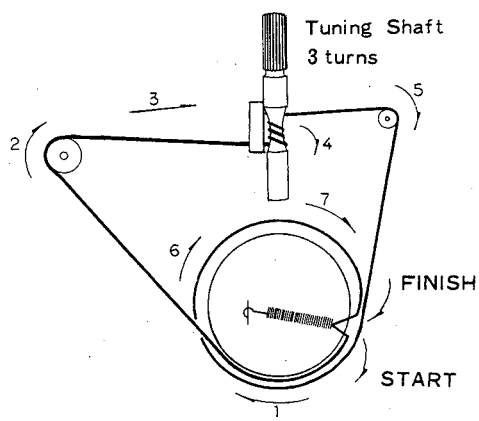


Fig. 3

TO ALIGN THE SET

Power Source : DC 6V
Output Measuring : Speaker terminal (Impedance=8Ω)

AM IF & MW RF ALIGNMENT

1. Depress the RADIO ON button.
2. Set the Volume control to the maximum and Tone control to the HIGH.
3. Input (S. S. G) : Modulation 400Hz 30%

Step	Band	Input Signal		Place to be aligned	Set the V. Capacitor to
		Frequency	Given to		
1	MW	455kHz	Loop Antenna	L 14, 16, 19	Minimum
2	(IF)	Repeat the Step 1, and adjust for no further improvement.			
3	MW	520kHz	Loop Antenna	L11	Macimum
4		1650kHz		C9	Minimum
5		Repeat the Step 3 & 4.			
6		600kHz	Loop Antenna	L9	600kHz Signal
7		1400kHz		C7	1400kHz Signal
8		Repeat the Step 6 & 7, and adjust for no further improvement.			

NOTE : Keep the output level always on about 50mW (0.63V/8Ω) when alignment.

LW RF ALIGNMENT (9405LS)

Step	Band	Input Signal		Place to be aligned	Set the V. Capacitor to
		Frequency	Given to		
1	LW	145kHz	Loop Antenna	L12	Maximum
2		360kHz		C10	Minimum
3		Repeat the step 1 & 2.			
4		150kHz	Loop Antenna	L10	150kHz Signal
5		350kHz		C8	350kHz Signal
6		Repeat the step 4 & 5, and adjust for no further improvement.			

SW RF ALIGNMENT (9405RS)

Step	Band	Input Signal		Place to be aligned	Set the V. Capacitor to
		Frequency	Given to		
1	SW	5.8MHz	Loop Antenna	L12	Maximum
2		18.5MHz		C10	Minimum
3		Repeat the step 1 & 2.			
4		6MHz	Loop Antenna	L10	6MHz Signal
5		18MHz		C8	18MHz Signal
6		Repeat the step 4 & 5, and adjust for no further improvement.			

FM IF & DISCRIMINATOR ALIGNMENTS

1. Set the FUNCTION switch to FM.
2. Press the RADIO ON button.
3. Turn the V. Resistor to minimum and set the Variable Capacitor near the minimum capacity where no signal comes in.
4. Connect the clip of TV. sweep generator's IF/VF OUTPUT lead to the test point "B", and also the other clip to the earth (Refer to Fig. 8).
5. Connect the scope terminal of TV. sweep generator to H. INPUT of oscilloscope, and also the ground terminal to the earth of the H. INPUT.
6. IF Alignment
   a. Give the output from the test point "D" to V. INPUT of oscilloscope (Refer to Fig. 8).
   b. Align the L7, 8, 13, 15 of FM IFT so that the maximum sensitivity and symmetrical wave mode will be obtained setting the marker 10.7MHz on the peak.
7. Discriminator Alignment
   a. Give the output from the test point "E" to V. INPUT of oscilloscope (Refer to Fig. 8).
   b. Give the marker 10.7MHz of 50~60dB output modulated to 30~60% by AM from standard signal generator to the antenna terminal "A" (Refer to Fig. 8).
   c. Align the secondary coil L18 of discriminator so that the sign wave appearing on the flyback line of "S" curve will disappear (Refer to Fig. 4, 5, 6).
   d. Align the primary coil L17 so that the response of the "S" curve will become maximum and symmetric.
8. Repeat the alignments of 6 & 7 and finally make sure that the IF peak and center point of the "S" curve will exactly coincide with 10.7MHz marker (Refer to Fig. 7).

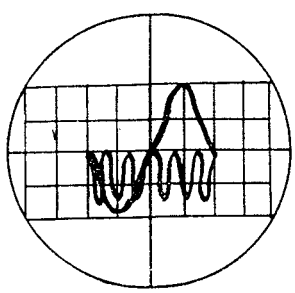


Fig. 4

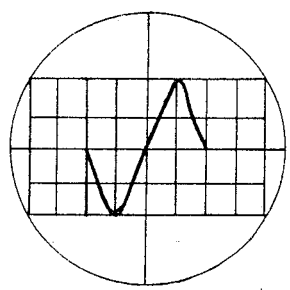


Fig. 5

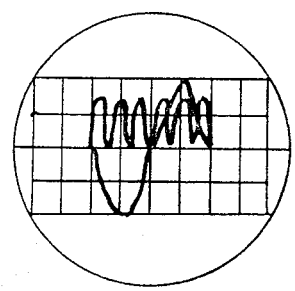


Fig. 6

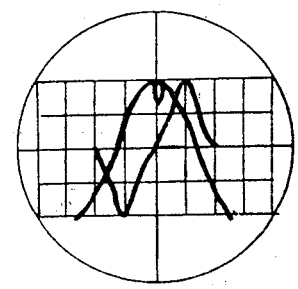


Fig. 7

FM RF ALIGNMENT

Input (S. S. G.) Use 75Ω terminal, modulation 1000Hz modulated to 22.5kHz deviation.

Step	Band	Input Signal		Place to be aligned	Set the V. Capacitor to
		Frequency	Given to		
1	FM	86.5MHz	"A" (Refer to Fig.8)	L6	Maximum
2		109MHz		C8	Minimum
3		Repeat the Step 1 & 2.			
4		88MHz	"A" (Refer to Fig.8)	L4	88MHz Signal
5		106MHz		C5	106MHz Signal
6		Repeat the Step 4 & 5, and adjust for no further improvement.			

NOTE : Keep the output level always on about 50mW (0.63V/8Ω) when alignment.

PARTS ARRANGEMENT FOR ALIGNMENT

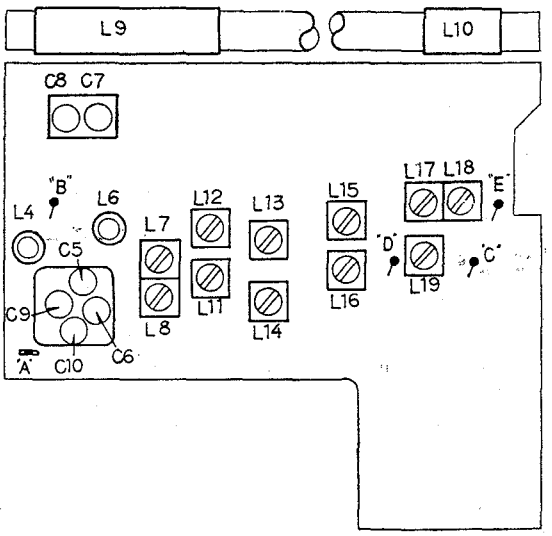


Fig. 8

TO REPLACE THE HEAD

The head of this recorder is the complex type head which includes both the play/record head and erasing head in one piece.
Remove 2 screws A & B, then the head can be replaced.

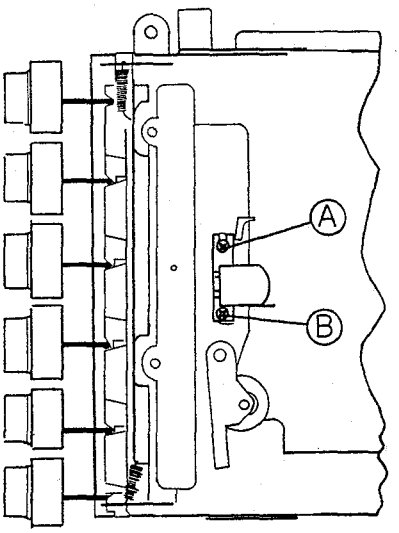


Fig. 9

TO ADJUST THE HEAD ANGLE (AZIMUTH)

When replace the head, adjust the head angle as following below mentioned procedure.

1. Connect the V. T. V. M. to the speaker terminals.
2. Playback the standard tape for angle adjustment (azimuth).
3. Adjust the head angle by turning the screw (A)minutely for maximum output (Refer to Fig. 9).

AUTOMATIC SHUT-OFF DEVICE

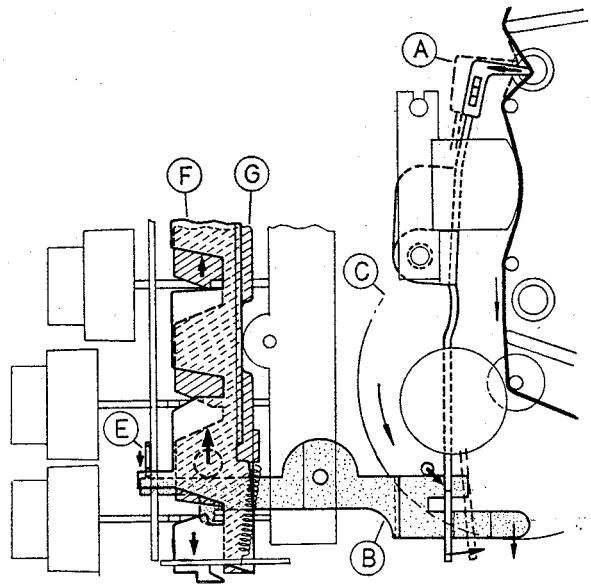


Fig. 10

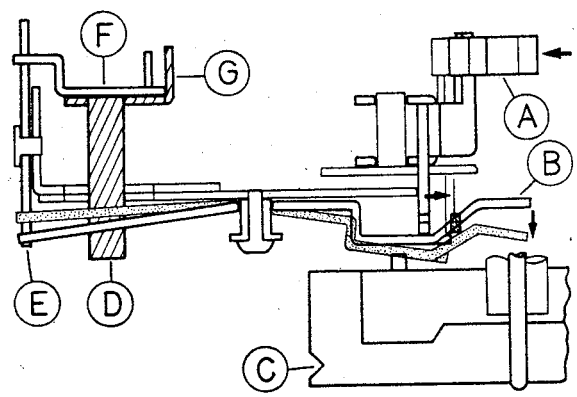


Fig. 11

When the tape has been wound up fully to the takeup reel, in the recording or playback mode, the tape transportation stops and the tape is tensioned.

The tape end detector lever A is pressed in the arrow direction by the tape tension and the other end of the detector lever A moves horizontally and depresses the lever B, thereby the lever B is engaged with the projection of the flywheel C, and then the lever B is turned clockwise by the flywheel C. As the lever B turns both the shaft D and lever E are pressed, the action plate G connected to the shaft D and the action plate F engaged with the lever E are moved in directions opposite to each other and they release the lock mechanism of the press button. This Automatic Shut-off Device only works in the recording and play back modes.

TAPE TRANSPORT OPERATION

RECORDING & PLAYBACK

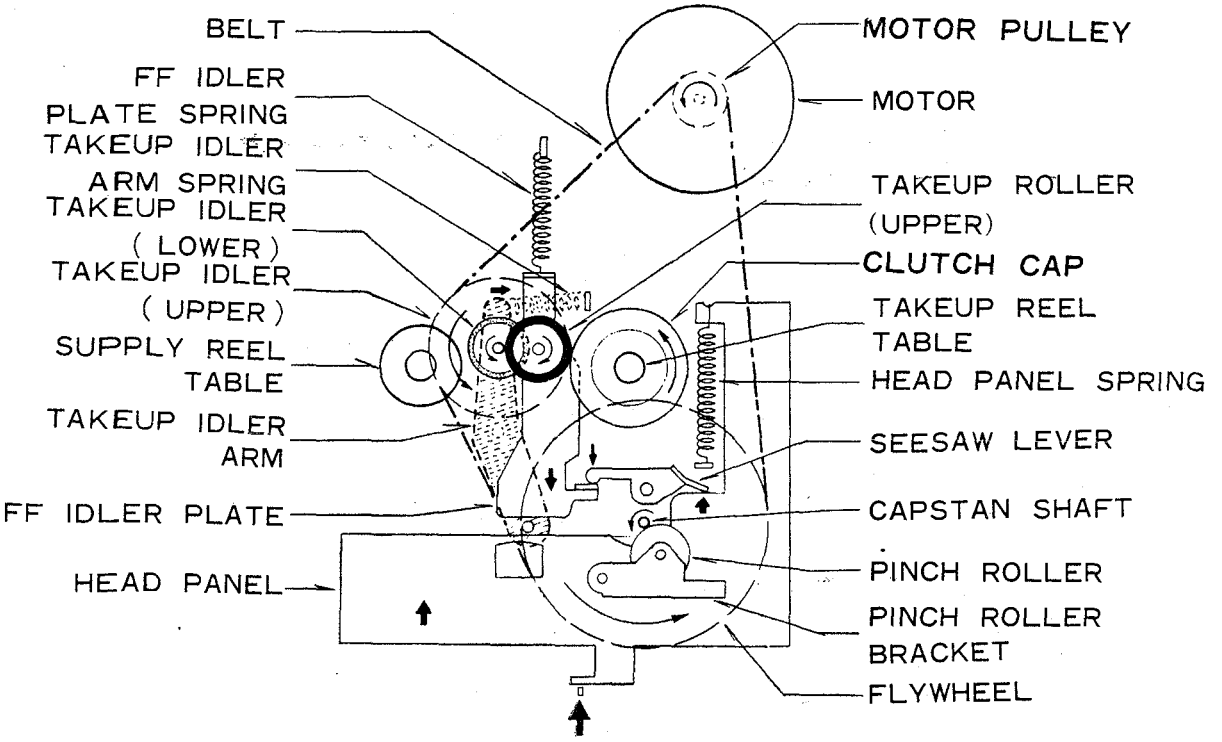


Fig. 12

When the PLAY-REC button is depressed, the following actions occur simaltaneously and the mechanism is placed into the RECORDING or PLAYBACK mode.

1. As the button is depressed, the HEAD PANEL moves and through the SEESAW LEVER the FF IDLER PLATE moves, thereby pressing the TAKEUP IDLER (UPPER) against both the TAKEUP IDLER SHAFT and CLATCH CAP.
2. Motor rotation is transmitted through the BELT to the FLYWHEEL and TAKEUP IDLER (UPPER), thereby turning the CAPSTAN SHAFT.
3. The TAKEUP IDLER rotation is transmitted through the TAKEUP ROLLER (UPPER) to the CLUTCH CAP, the TAKEUP REEL TABLE rotates and the tape is wound up.
4. As the HEAD PANEL moves, thereby pressing the PINCH ROLLER against the CAPSTAN SHAFT.

FAST FORWARD

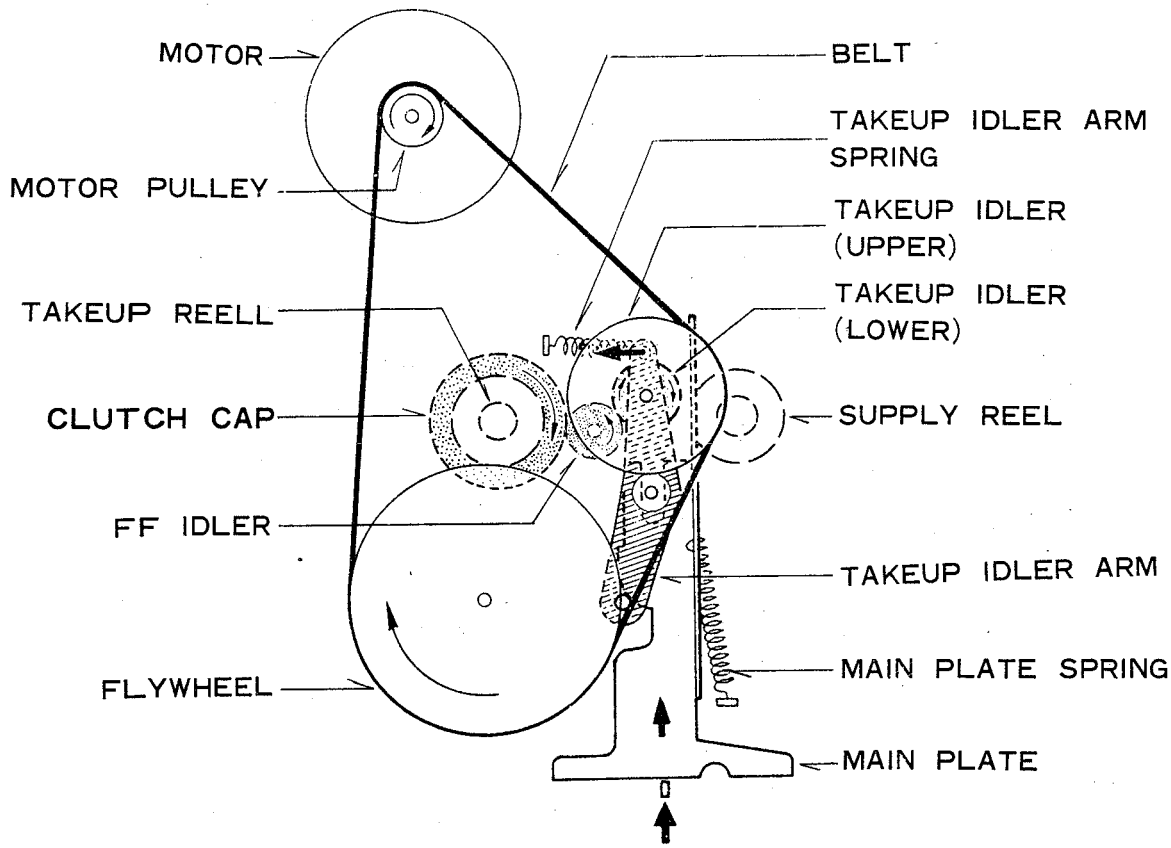


Fig. 13

When the FF button is depressed, the following actions occur simaltaneouly and the mechanism is placed into the FF mode.

1. As the button is depressed the MAIN PLATE moves, thereby pressing the TAKEUP IDLER (LOWER) against the FF IDLER and the FF IDLER against the CLUTCH CAP.
2. Motor rotation is transmitted through the BELT to the TAKEUP IDLER.
3. The TAKEUP IDLER (LOWER) rotation is transmitted through the FF IDLER to the CLATCH CAP, thereby turning the TAKEUP REEL in the FF direction.

REWIND

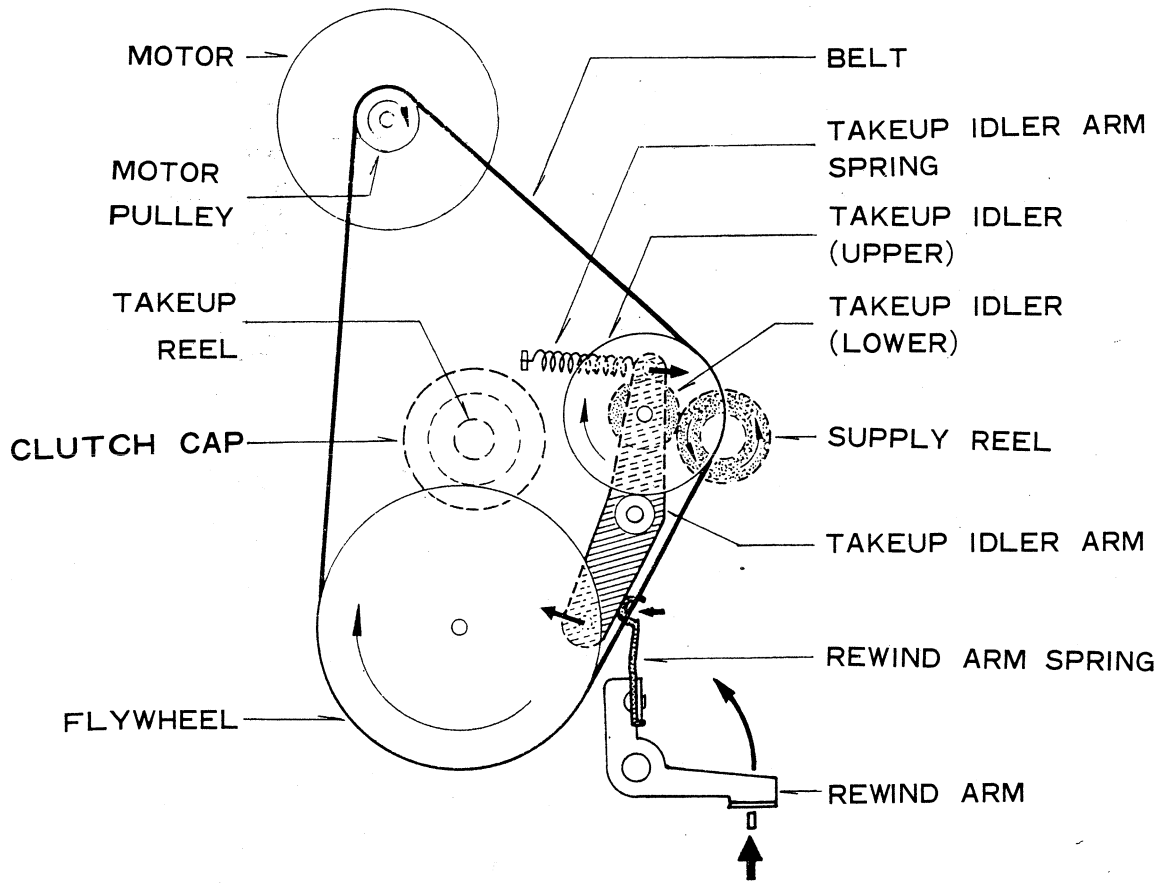


Fig. 14

When the REWIND button is depressed, the following actions occur simaltaneously and the mechanism is placed into the REWIND mode.

1. As the button is depressed, the REWIND ARM and the TAKEUP IDLER ARM move, thereby pressing the TAKEUP IDLER (LOWER) against the SUPPLY REEL.
2. Motor rotation is transmitted through the BELT to the TAKEUP IDLER (UPPER).
3. Through the TAKEUP IDLER (UPPER), the TAKEUP IDLER (LOWER) rotates thereby turning the SUPPLY REEL in the REWIND direction.

PARTS ARRANGEMENT ON PRINTED CIRCUIT BOARD (TUNER & AMP)

9405LS

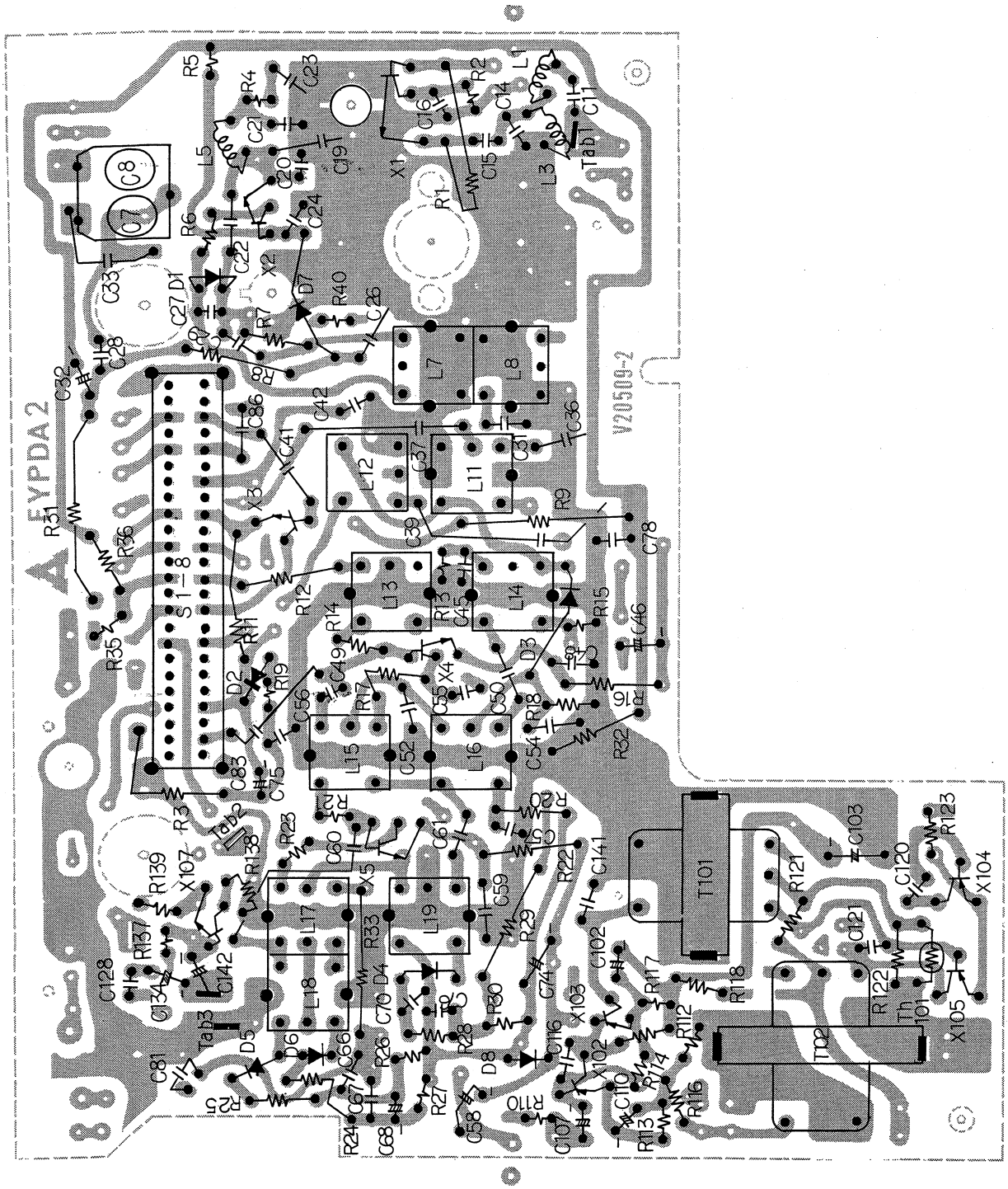


Fig. 15

PARTS ARRANGEMENT ON PRINTED CIRCUIT BOARD (TUNER & AMP)

9405RS

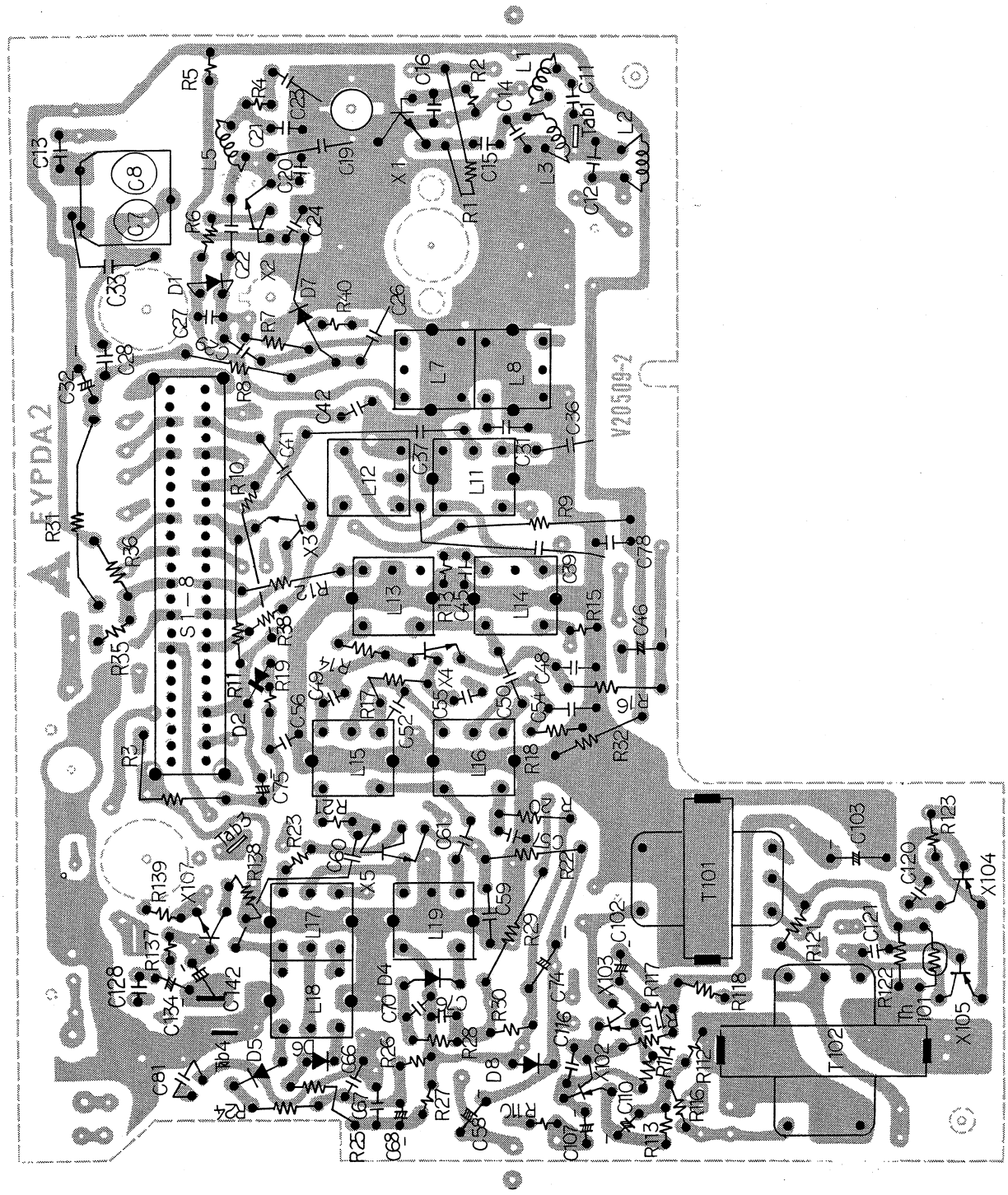


Fig. 16

PARTS ARRANGEMENT ON PRINTED CIRCUIT BOARD

PREAMP

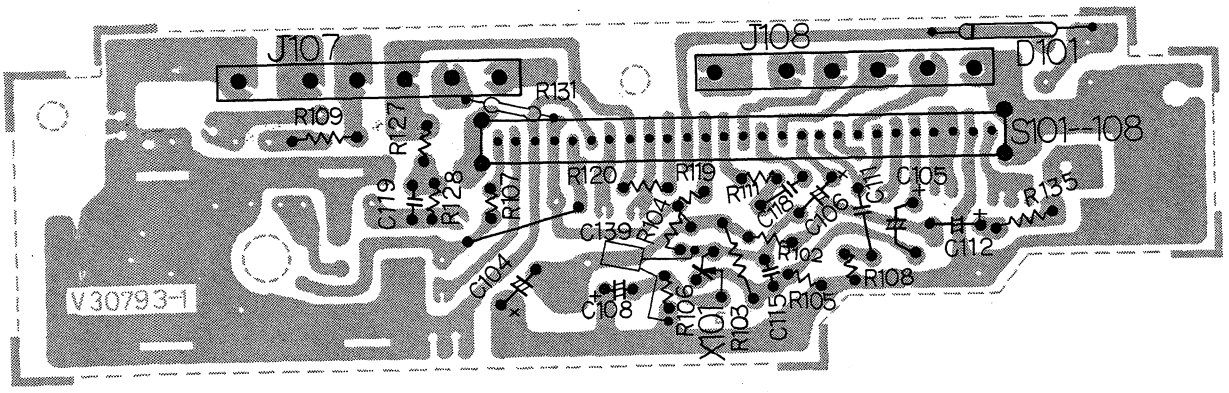


Fig. 17

OSC CIRCUIT

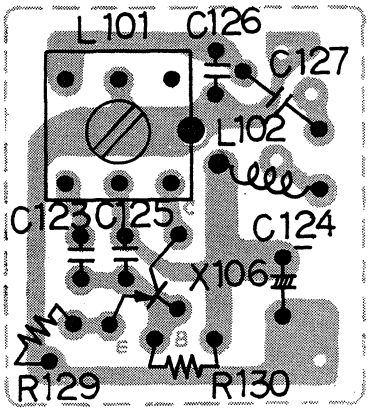


Fig. 18

POWER SUPPLY

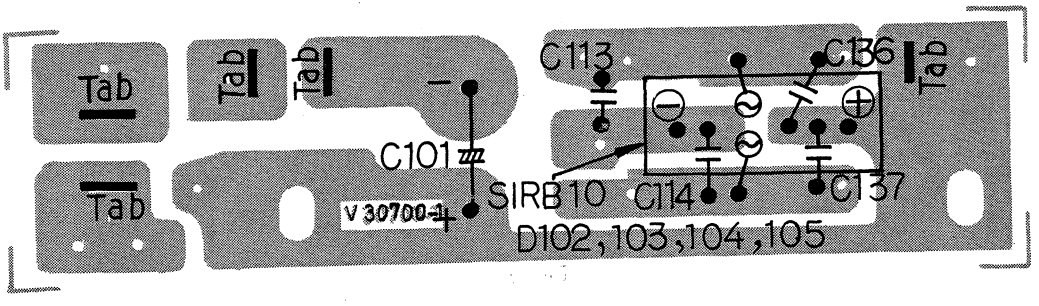


Fig. 19

BLOCK DIAGRAM

RECORDING

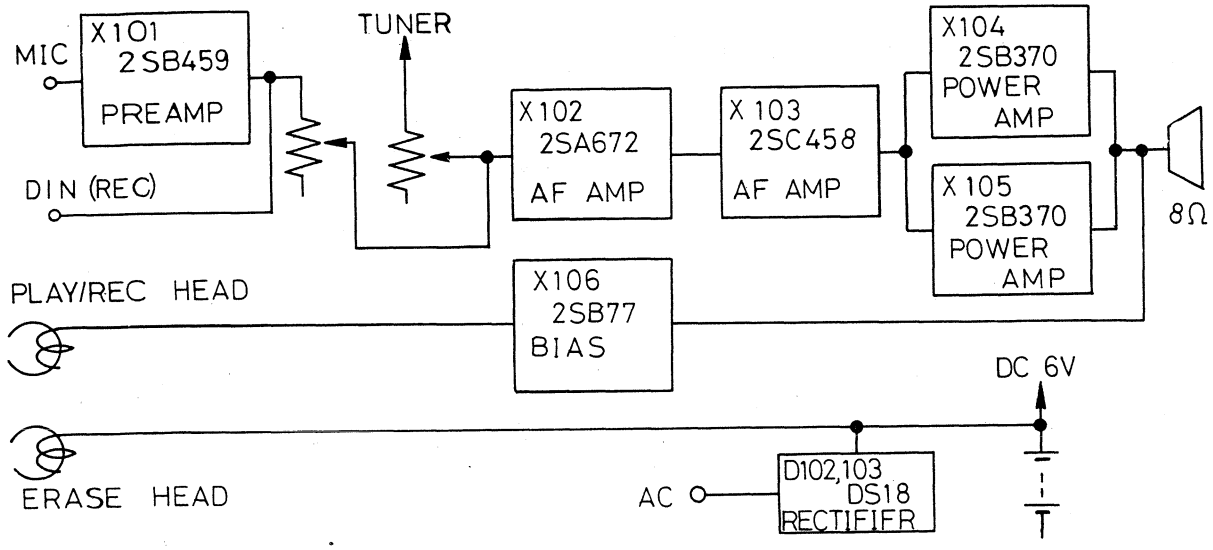


Fig. 20

RADIO & PLAYBACK

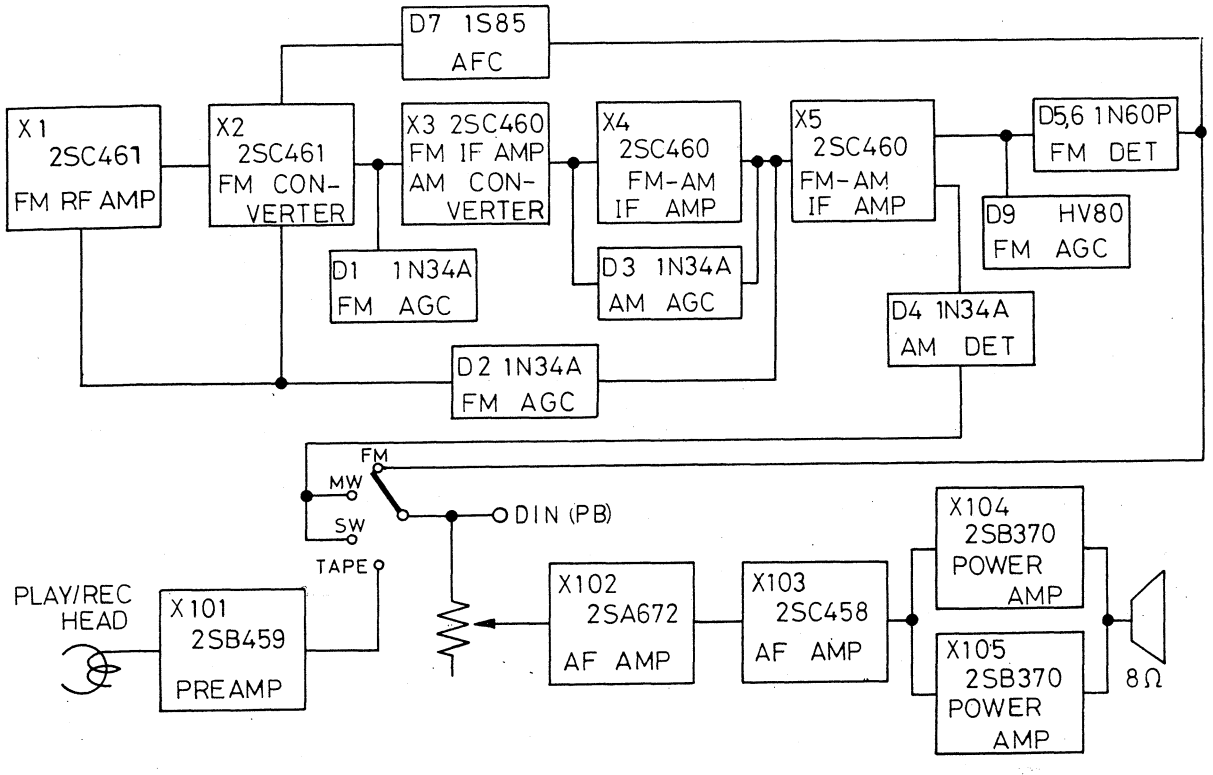


Fig. 21

DISASSEMBLY DIAGRAM OF CABINET (FRONT)

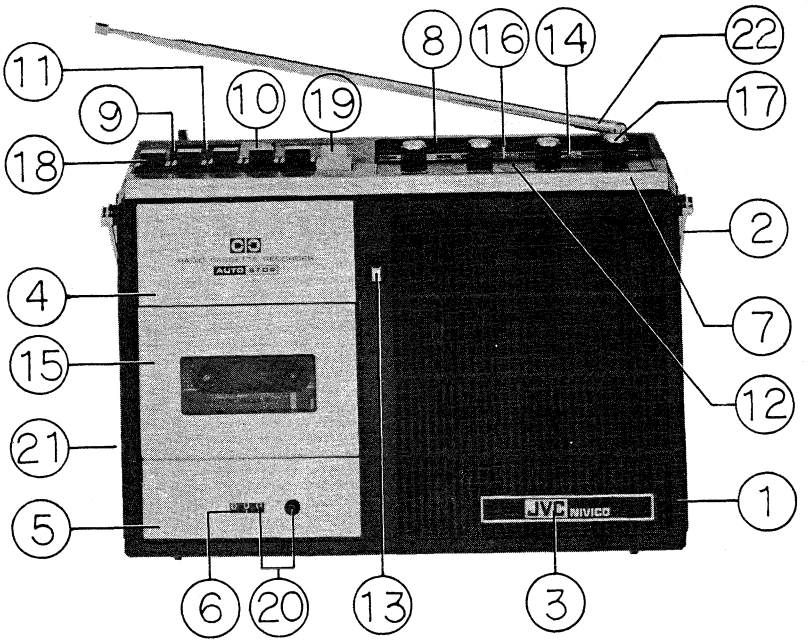


Fig. 22

PARTS LIST OF CABINET

Dwg. No.	Parts No.	Parts Name	Remarks
1	V10160-1	Front Cabinet	
2	V30716-B	Handle	
3	V43015-2	Mark	Glued
4	V42970-1	Plate (A)	" Silver
	" -2	" "	" Black
5	V42972-3	" (C)	" Silver
	" -2	" "	" Black
6	V43014-1	Counter Lens	"
7	V20521-2	Top Cover	" Silver
	" -5	"	" Black
8	V30705-1	Dial Lens	"
9	V30706-1	Meter-Mic Holder	"
10	V42974-1	Mic Plate	"
11	V03061-7	Level Meter	
12	V42977-4	Control Panel	Glued 9405LS
	" -3	"	" 9405RS
13	V42978-A	Push Knob Ass'y	
14	V30709-5	Dial Scale	Glued 9405LS
	" -2	"	" 9405RS
15	V42971-1	Plate (B)	" Silver
	" -4	" "	" Black
16	V42987-B	Needle Ass'y	
17	V42991-B	Knob Ass'y	
18	V43090-1	Knob	
19	" -2	"	
20	V30712-1	Tape Counter	
21	V03104-9	Jack Board Ass'y	J102,103,105, S201,202
22	V30710-1	Rod Antenna	

DISASSEMBLY DIAGRAM OF CABINET (FRONT)

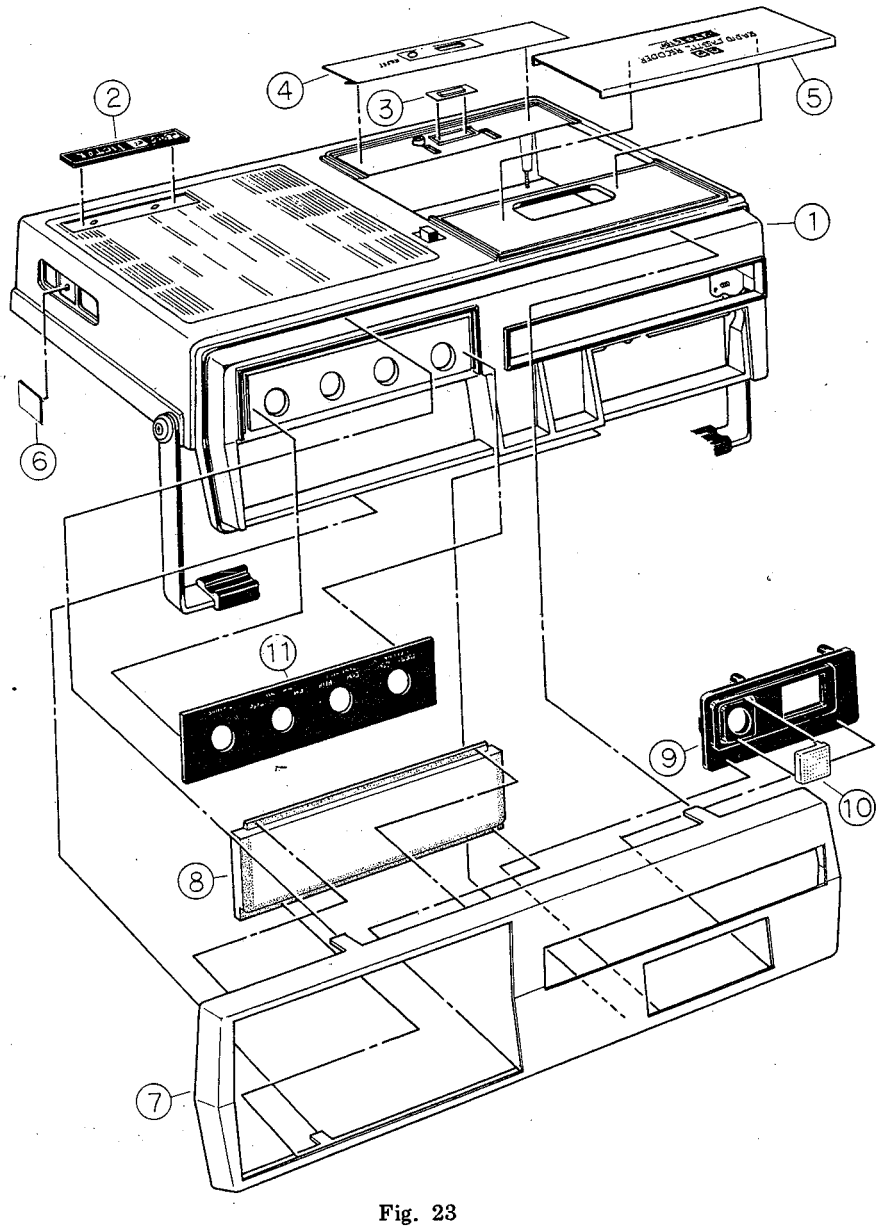


Fig. 23

PARTS LIST OF CABINET

Dwg. No.	Parts No.	Parts Name	Remarks
1	V10160-1	Front Cabinet	
2	V43015-2	Mark	Glued
3	V43014-1	Counter Lens	〃
4	V42972-3	Plate (C)	〃 Silver
	〃 -2	〃 〃	〃 Black
5	V42970-1	〃 (A)	〃 Silver
	〃 -2	〃 〃	〃 Black
6	V41557-10	AC Plate	〃 220V
	〃 -11	〃	〃 110V
7	V20251-2	Top Cover	〃 Silver
	〃 -5	〃	〃 Black
8	V30705-1	Dial Lens	〃
9	V30706-1	Meter-Mic Holder	〃
10	V42974-1	Mic Plate	〃
11	V42977-4	Control Panel	〃 9405LS
	〃 -3	〃	〃 9405RS

DISASSEMBLY DIAGRAM OF CABINET (FRONT INSIDE)

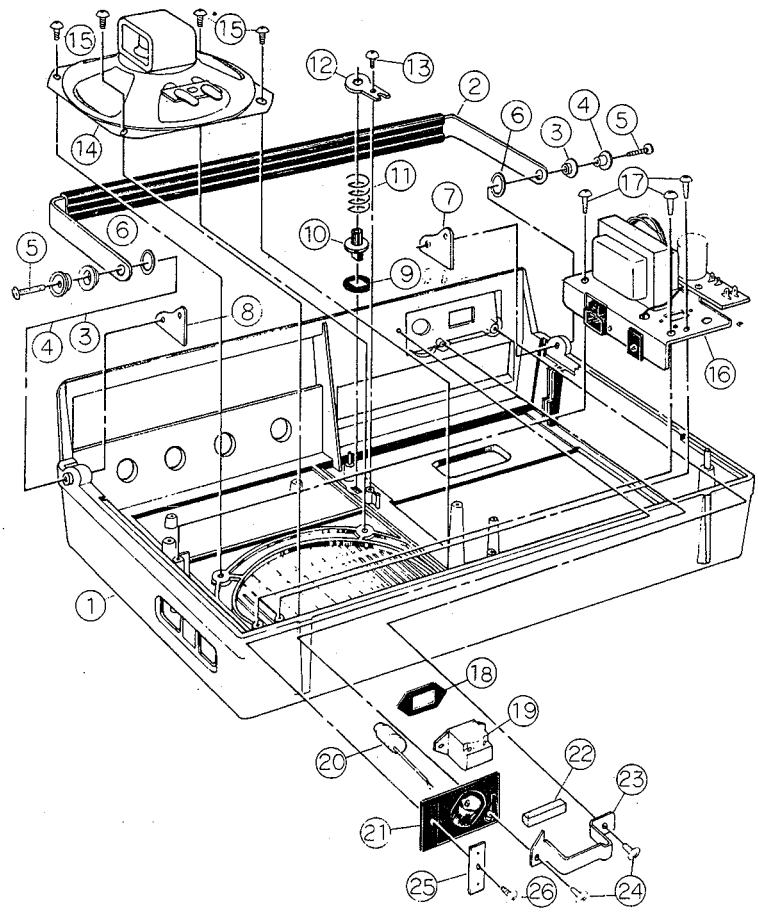


Fig. 24

PARTS LIST OF CABINET

Dwg. No.	Parts No.	Parts Name	Dwg. No.	Parts No.	Parts Name
1	V10160-1	Front Cabinet	14	EAS10P70S	Speaker
2	V30716-B	Handle	15	SBSB3006Z	Screw
3	V42969-2	Handle Spacer	16	——	AC Adaptor Ass'y
4	V42968-2	Handle Shaft	17	SBSB3008C	Screw
5	SHBP3016RS	Screw	18	V43112-1	Rubber Spacer
6	Q03093-501	Spacer	19	V03061-7	Level Meter
7	V42967-1	Handle Bracket	20	WM-086KX	E.C. MIC
8	-2	"	21	V30721-1	Mic Bushing
9	V42624-1	Spacer	22	03084-462	Spacer
10	V42978-A	Push Knob Ass'y	23	V42976-2	Holder
11	V42547-2	Spring	24	SBSB2606Z	Screw
12	V42979-1	Knob Holder	25	V43400-1	Binder
13	SBSB3008Z	Screw	26	SBSB2606Z	Screw

DISASSEMBLY DIAGRAM OF CABINET (REAR)

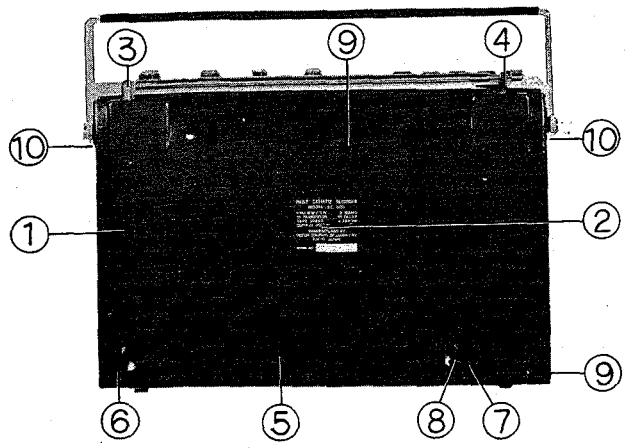


Fig. 25

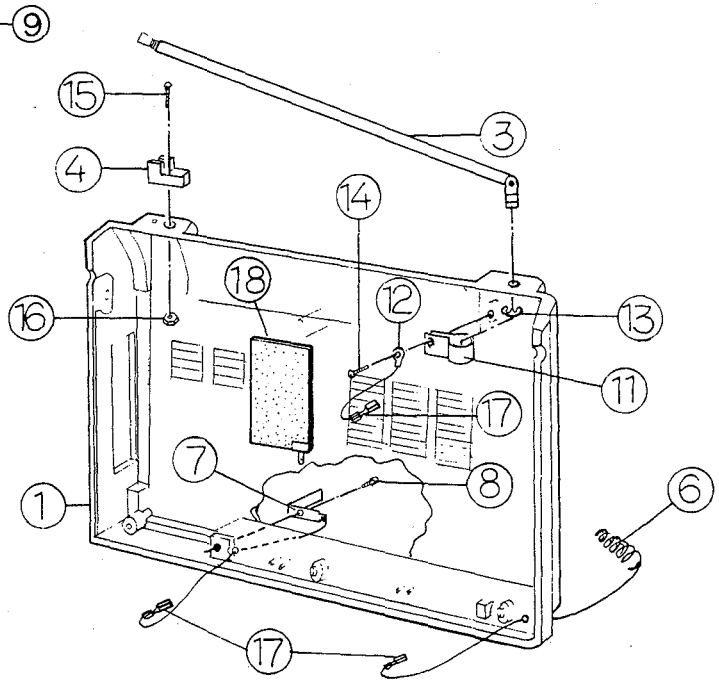


Fig. 26

PARTS LIST OF CABINET

Dwg. No.	Parts No.	Parts Name	Remarks
1	V10161-3	Rear Cover	
2	V30711-5	Name Plate	Glued (9405LS)
2	" -4	"	Glued (9405RS)
3	V30710-1	Rod Antenna	
4	V42361-3	Rod Antenna Stopper	
5	V20522-2	Battery Cover	
6	53738-8	Spring	Force Fitted
7	V42989-2	Battery Contact	
8	SBSB2606Z	Screw	
9	SDBP3010RS	"	
10	SHBP3008BS	"	
11	V50029-2	Rod Antenna Holder	
12	50242-2	Lug	
13	REE6000	"E" Washer	
14	SPSP2605Z	Screw	
15	SPBP2010N	"	
16	NTB2000	Nut	
17	A50449-B	Connector	
18	V43119-A	Shield Cover Ass'y	

DISASSEMBLY DIAGRAM OF TUNER CHASSIS

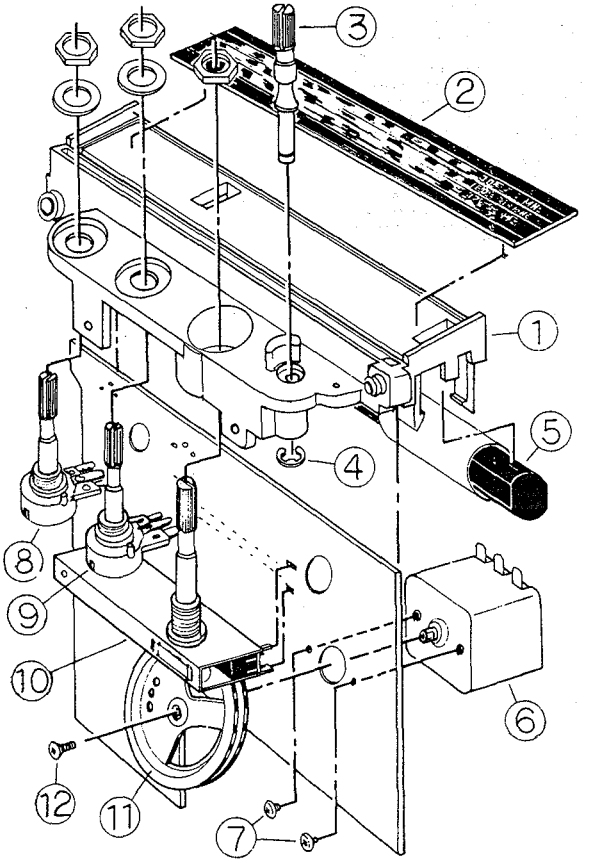


Fig. 27

PARTS LIST OF TUNER CHASSIS

Dwg. No.	Parts No.	Parts Name	Description
1	V20527-A	Chassis Subass'y	
2	V30709-5	Dial Scale	Glued (9405LS)
2	" -2	"	" (9405RS)
3	52679-34	Tuning Shaft	
4	REE3000	"E" Washer	
5	V03071-77	Bar Antenna	L9, 10 (9405LS)
5	" -73	"	" (9405RS)
6	Q03467-001(A)	Variable Capacitor	C1~6, 9, 10
7	SPSP2603Z	Screw	
8	QVG3A3D-054	Variable Resistor	R133
9	QVG3A3A-054	"	R132
10	QSR4184-400	Rotary Slide Switch	S1~8
11	Q03992-1	Dial Drum	
12	SSSP2606Z	Screw	

DISASSEMBLY DIAGRAM OF MECHANICAL ASSEMBLY

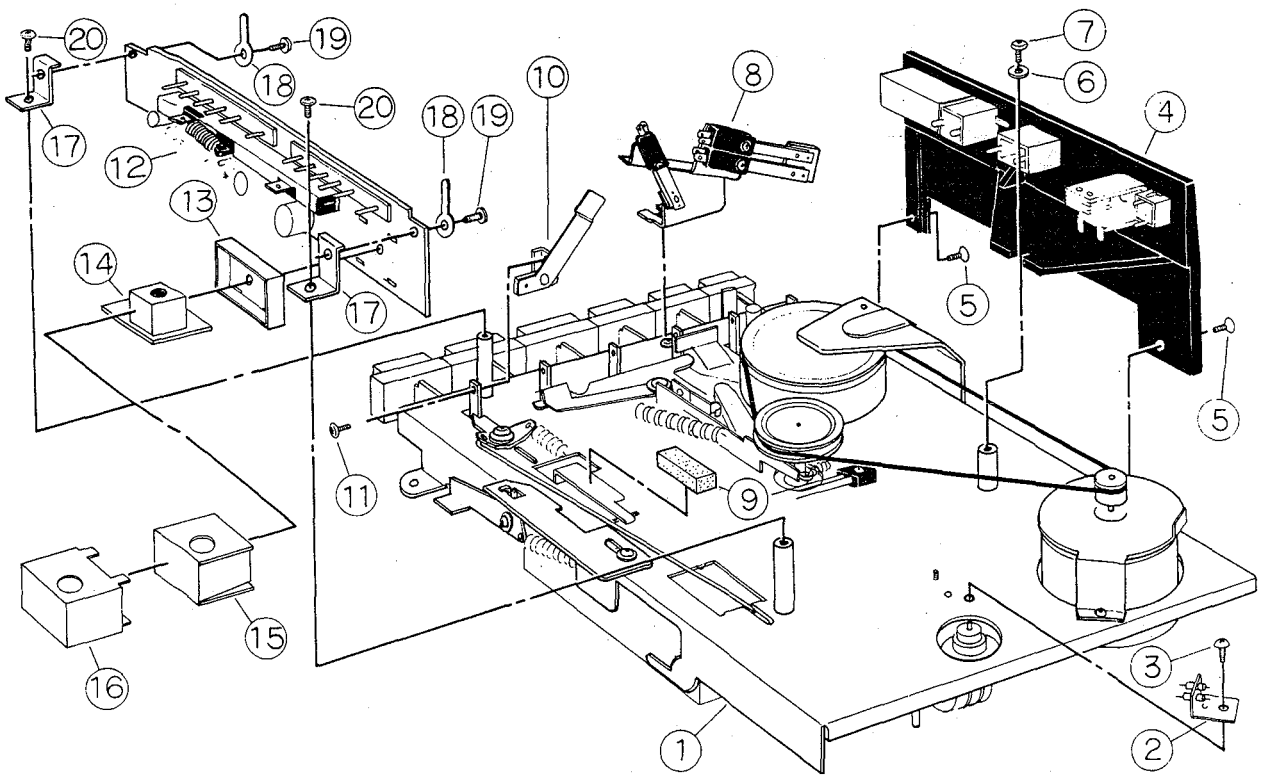


Fig. 28

PARTS LIST OF MECHANICAL ASSEMBLY

Dwg. No.	Parts No.	Parts Name	Remarks
1	VDL5001-006B	Cassette Mecha Ass'y	9405LS
1	VDL5001-001B	"	9405RS
2	V03082-2	Feedthru	C132, 134 (9405RS)
3	SPSP2606Z	Screw	
4	V03104-9	Jack Board Ass'y	J101~103, 105, S201, 202
5	SSSP2606Z	Screw	
6	WNB2600N	Washer	
7	SPSP2606Z	Screw	
8	V30718-B	Leaf Switch Ass'y	
9	03084-240	Spacer	
10	V43146-A	Spring Ass'y	
11	SPSP2006Z	Screw	
12		Preamp Ass'y	
13	V43017-1	Shield Cover	
14		Osc Board Ass'y	
15	V43022-2	Spacer	
16	V43016-1	Shield	
17	V42983-1	Holder	
18	55234-1	Wire Clamp	
19	SPSP2606Z	Screw	
20	SPSP2606Z	Screw	

PACKING ILLUSTRATION

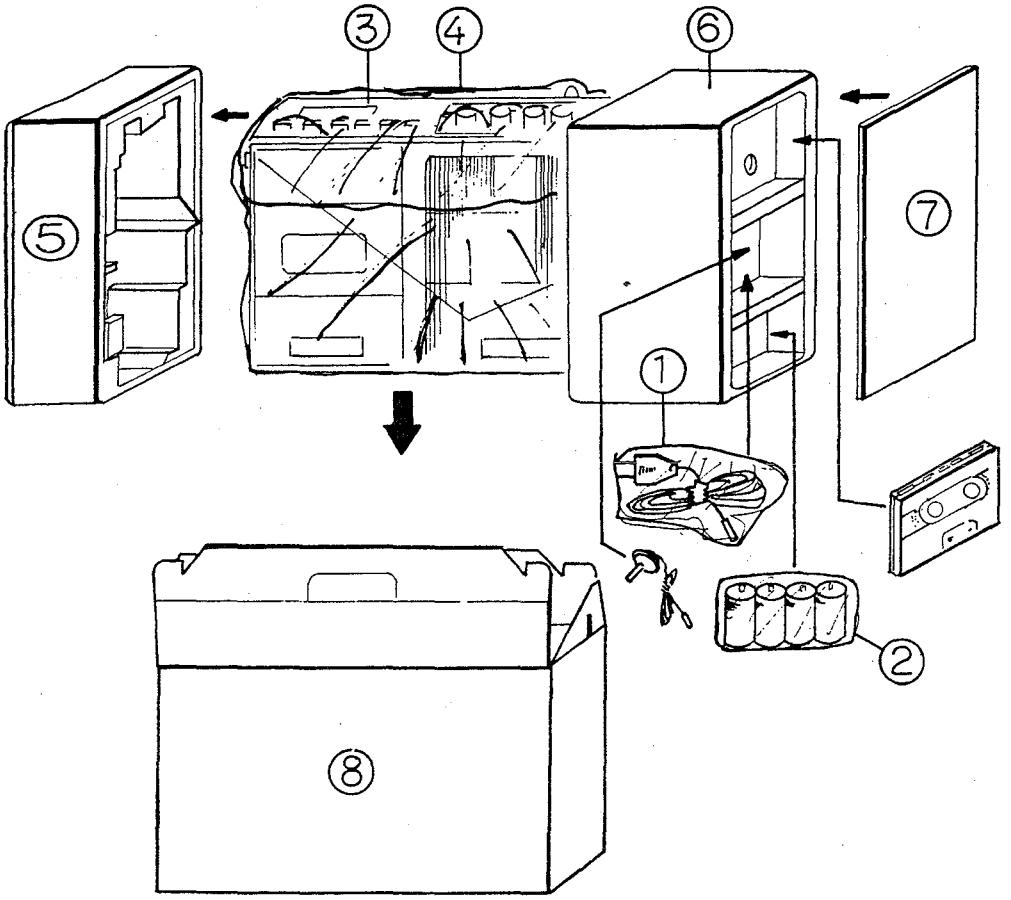


Fig. 29

Dwg. No.	Parts No.	Parts Name	Remarks
1	06023-9	Parts Sack	for Power Cord
2	06023-14	"	for Battery
3	—	Wrapping Paper	
4	06026-41	Cabinet Cover	
5	VP1280-1	Side Cushion (L)	
6	VP1281-1	" (R)	
7	VP3224-4	Plate	
8	VP3224-6	Carton Box	
5~8	VP3224-C	Carton Box Ass'y	(9405LS)
"	VP3224-B	"	(9405RS)

PARTS LIST OF CASSETTE MECHANISM

Dwg. No.	Parts No.	Parts Name	Dwg. No.	Parts No.	Parts Name
1	V20530-A	Chassis Ass'y	26	V43065-A	Flywheel Ass'y
2	V43152-B	Head Panel Ass'y	27	V43066-1	Main Belt
3	V43153-A	Pinch Roller Ass'y	28	V30731-6	Spring
4	V43034-1	Pinch Roller Spring	29	V43158-A	Takeup Arm Ass'y
5	V03078-13	3 in 1 Head	30	V43157-A	Rewind Arm Ass'y
6-1	V43447-1	Stop Detect Lever	31	V43076-1	Main Plate
6-2	V43042-1	Stop Detect Contact	32	V30731-5	Spring
7	V43041-2	Stop Detect Spring	33	V43077-1	Leaf Switch
8	V43228-1	Head Stud	34	V43078-1	Play Stopper
9	V42777-1	Spring	35	V30731-8	Spring
10-1	V43230-1	Collar	36	V43080-1	Kick Lever
10-2	V42562-3	Special Washer	37	V43081-1	Kick Lever Spring
11	V43044-1	Collar	38	V43082-1	Kick Lever Collar
12	V43045-1	Collar Nut	39	V43083-1	Pop Up Lever
13	V43046-1	Play Arm Lever	40	V43084-1	Pop Up Plate
14	V43047-1	Play Arm Collar	41	V43085-1	Record Safety Plate
15-1	V43154-A	Play Arm Ass'y	42	V43087-1	Collar
15-2	V43050-A	FF Idler	43	V43088-1	Record Safety Spoke
15-3	V43052-A	Takeup Roller	44	V30731-7	Spring
16	V43155-A	Takeup Reel Ass'y	45	V43089-1	Spoke Holder
17	V43156-A	Supply Reel Ass'y	46-1	V43090-1	Push Button (Black)
18	V43061-1	Counter Belt	46-2	V43090-2	" (Red)
19	V30712-1	Tape Counter	47	V30733-B	Push Switch Ass'y
20	V43062-1	Counter Bracket	48	V42613-1	Special Screw
21	V41928-B	Flywheel Bracket Ass'y	49	V43101-1	Pack Spring
22	MHT-5XV6	Motor (9405RS)	50	V20525-B	Cassette Case Ass'y
22	SF673R-01	" (9405LS)	51	V30731-3	Spring
23	V43063-1	Motor Holder	52	V30731-2	"
24-1	V43049-1	Motor Rubber	53	V30731-9	"
24-2	V43270-1	Collar	54	V30731-10	"
25	V43064-A	Flywheel Bushing	55	V30730-5	"

Parts No.	Parts Name	Description
Coils & Transformers		
V03047-11	Antenna Coil (FM)	L1
〃 -10	〃 (〃)	L2(9405RS), 3
V03041-39	RF Coil (〃)	L4
03226-1	IF Trap Coil	L5
V03041-40	Osc Coil (FM)	L6
V03046-14	IFT (FM 1st)	L7,8
V03071-77	Bar Antenna	L9,10 (9405LS)
〃 -73	〃	L9,10 (9405RS)
46923-47	Osc Coil (MW)	L11
〃 -42	〃 (LW)	L12 (9405LS)
V03101-4	〃 (SW)	L12 (9403RS)
V03046-28	IFT (FM 2nd & 3rd)	L13,15, C43,51
V03029-26	〃 (AM 1st)	L14, C44
〃 -27	〃 (AM 2nd)	L16, C53
V03046-27	〃 (FM Det)	L17,18, C62,65
V03029-28	〃 (AM 3rd)	L19, C64
V03083-1	Osc. Coil	L101
03226-14	Trap Coil	L102
Q03372-5	Input Transformer	T101
V03075-8	Output Transformer	T102
VTP41E-60B	Power Transformer	
Semiconductors		
2SC461(B)	Transistor (Hitachi)	X1,2
2SC460(B)	〃 (〃)	X3,4,5
2SB459(C,D)	〃 (〃)	X101
2SA672(B)	〃 (〃)	X102
2SC458(D)	〃 (〃)	X103,107
2SB370(B,C)	〃 (〃)	X104,105
2SB77(C)	〃 (〃)	X106
1N34A	Germanium Diode (Hitachi)	D1~4, 101
1N60P	〃 (〃)	D5,6
1S85WT	Variable Capacitor Diode (Hitachi)	D7
HV-46GR	Varistor (Hitachi)	D8
HV-80	Silicon Diode (Hitachi)	D9,10,11
S1RB10	〃 (Shindengen)	D102~105
D-1E(RD)	Thermistor (Hitachi)	Th101
Capacitors		
Q03467-001(A)	Variable Capacitor	C1~6,9,10
Q03638-1	Trimmer Capacitor	C7,8
V03082-2	Feedthru	C132,133,(9405RS)
Q03246-102	Mylar Capacitor	C15,66,67
〃 -222	〃	C41, 86 (9405LS)
〃 -332	〃	C127
〃 -472	〃	C40 (9405RS)
〃 -682	〃	C37,119
〃 -103	〃	C16,24,28,29,30,45,56,69,70,76,120, 121,123
〃 -103	〃	C40 (9405LS)
〃 -153	〃	C118
〃 -223	〃	C42,78,117,122,126,139
〃 -223	〃	C54,57 (9405LS)
〃 -333	〃	C125
〃 -473	〃	C48,59,81
〃 -683	〃	C111
Q03263-131	Polystyrol Capacitor	C39 (9405LS)
〃 -301	〃	C36
〃 -331	〃	C21
〃 -102	〃	C83,52 (9405RS)
〃 -202	〃	C77 (9405RS)
〃 -322	〃	C39 (9405RS)
Q03264-331	〃	C116 (9405LS)
〃 -681	〃	C128
〃 -102	〃	C52 (9405LS), 63

Parts No.	Parts Name	Description
Q03104-50	Electrolytic Capacitor	C108,110
" -100	"	C84,124
" -200	"	C74,104
" -500(D110)	"	C58,102
" -1000(D135)	"	C103
" -2000	"	C129
Q03106-30	"	C75
" -1000	"	C109 (9405RS)
" -2000	"	C109 (9405LS), 101
Q03108-10	"	C46,68
Q03110-3	"	C105,106
Q03112-0.5	"	C32,107,134,140,142
Q03193-0.22	"	C112
Q00402-10CH	Ceramic Capacitor	C25 (9405LS)
Q04202-007	"	C82
Q04062-02	"	C54,57 (9405RS)
" -02	"	C113,114,136,137
" -04	"	C23
Q04335-100	"	C27 (9405RS)
*Q04305-	"	Other Capacitors
Resistors		
QVG3A3A-054	Variable Resistor	R132
QVG3A3D-054	"	R133
QRW123K-1R0	Wire Wound Resistor	R123
ERX2ANK-8R2	Unflammable Resistor	R126
04091-5.6	Composition Resistor	R125
*Q04800-	Carbon Resistor	R9,22,31,43,136
*Q04802-	"	Other Resistors
Note : When you require capacitors or resistors marked *, write capacitance or resistance value in addition to the right-hand of hyphen.		
Others		
QSR4184-400	Rotary Slide Switch	S1~8
QSS0025-002	Slide Switch	S101~108
V30718-C	Leaf Switch Ass'y	S401,501,601
QMS3503-002	Jack Ass'y	J101
V03104-9	Jack Board Ass'y	J102,103,105, S201,202
Q03930-1	External Power Jack	J104
Q03970-5	AC Socket Ass'y	J106
QMC0659-001	6-pin Jack	J107,108
QMD0629-001	6-pin Plug	P101,102
EAS10P70S	Speaker	10cm 8Ω
WM-086KX	Condenser Microphone	
V03061-7	Level Meter	L101
Q03213-001	Fuse Holder	
Q04899-1	Fuse	1 Ampere
Q03062-1	Power Cord with Plug	SEV Type Approved
A03004-H	"	Continental Type Plug

Requirement to Customers

When you order spare parts, please send the order sheet directly to EXPORT SECTION, RADIO DIVISION.

Victor Company or Japan, Limited.

804 Futoo-cho, Kohoku-ku, Yokohama, Japan

The List of JVC NIVICO Service Manual

(Radio)

No.	Model	No.	Model	No.	Model	No.	Model	No.	Model
1061	9F-216	1071	TCR-555	1081	6H-156	1091	RS-1400	1101	8A-137
1062	6H-112C	1072	RS-1100	1082	6H-324	1092	TP-4A	1102	9F-313 (A), (R)
1063	7H-236	1073	10A-323	1083	7H-129M	1093	FA-6000T	1103	12F-250
1064	7H-237	1074	9F-220	1084	8H-333	1094	8H-350	1104	6H-138
1065	M・XE	1075	10H-406	1085	TH-2770SZ	1095	10A-327, 337	1105	8A-252E
1066	8H-238	1076	8H-407	1086	11F-314S	1096	RS-2100 (T)	1106	12F-343 (L)
1067	6H-130	1077	7H-324	1087	6H-257	1097	M・SSE	1107	RS-2000 (T)
1068	6H-119	1078	F-215T	1088	8A-334	1098	8H-360	1108	6H-258
1069	6H-124	1079	7H-250	1089	6H-142	1099	AA-6E, U	1109	RS-1400S
1070	11F-314, (A),(R)	1080	6H-131	1090	6H-141	1100	7A-146E	1110	8A-251

No.	Model	No.	Model	No.	Model	No.	Model	No.	Model
1111	TP-5 (A)	1121	FA-900N	1131	RS-2000A	1141	6H-110NK	1151	9200/RS-2500(E)
1112	10H-407	1122	RS-2100LA	1132	12F-335E, R	1142	RS-2600 RS-2600(E)	1152	9300
1113	5H-258E	1123	8H-345	1133	TCR-101	1143	RB-10A, E etc	1153	8500
1114	8H-407A	1124	8H-300	1134	TRH-400	1144	8200	1154	RC-200H
1115(B)	RS-2100A	1125	6H-145 (B)	1135	10F-353L	1145	9100/RS-1500E	1155(B)	RC-200E
1116	10F-407	1126	10H-410	1136(B)	STF-200E STF-200EM	1146	8A-260E	1156(B)	A-750L (W)
1117	8A-265	1127	AA-6E, U, C	1137(B)	8800 (SA)	1147	9101, 9102 TP-500E	1157	8900
1118	TCR-575S	1128	A730S, B	1138(B)	9800/STF-600	1148(B)	9400 (R#-2)	1158	8802
1119(B)	8A-353A (LR)	1129	8H-407R	1139	RC-200	1149	10A-337K	1159	10F-407R
1120	HE-412	1130	8A-150E	1140(B)	F-750E (8201)	1150	6H-259	1160	6H-138D

No.	Model	No.	Model	No.	Model	No.	Model	No.	Model
1161	8202	1171	10A-351	1181	8H-407AN	1191	PAF-29	1201	SCR-100
1162	8A-260L	1172	RS-1500	1182	FA-40L	1192	PMB-70	1202	9410
1163(B)	RC-200W	1173	12201	1183	R-1650	1193	A-550	1203	9410S
1164	F-750W	1174	12F-343SA	1184	R-1750	1194(B)	9035, E	1204(B)	9420LS (R#-3)
1165(B)	RC-200(H) (R#-2)	1175	STF-400E	1185	9450 (E)	1195	9030	1205	RS-4000L
1166	F-720E	1176	8500SA	1186	FA-40	1196	8204	1206	8805
1167	10F-408	1177	F-820E, 8203, F-820W	1187	8H-415	1197	RS-2100LN	1207	9410E, 9410R
1168(B)	RC-200SA	1178	8510	1188	6H-272	1198	8H-272	1208	9420E, 9420K
1169	STF-410E, SA	1179	9810	1189	9810E, 9810SA	1199	RS-4000	1209	9400S/ RC-200 (R#-2)
1170	8H-408	1180	8920	1190	6H-172 (V)	1200	CTR-8	1210	9420S

No.	Model	No.	Model	No.	Model	No.	Model	No.	Model
1211	8H-417	1221	9405LS, RS						
1212	8H-277	1222	9405S						
1213	9410LS	1223	8H-277E						
1214	RS-4000LS	1224	AA-9E						
1215	9420	1225							
1216	8511	1226							
1217	8804	1227							
1218	6H-110N, NY	1228							
1219	9420W	1229							
1220	9405E, R	1230							

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WIRING CONNECTION

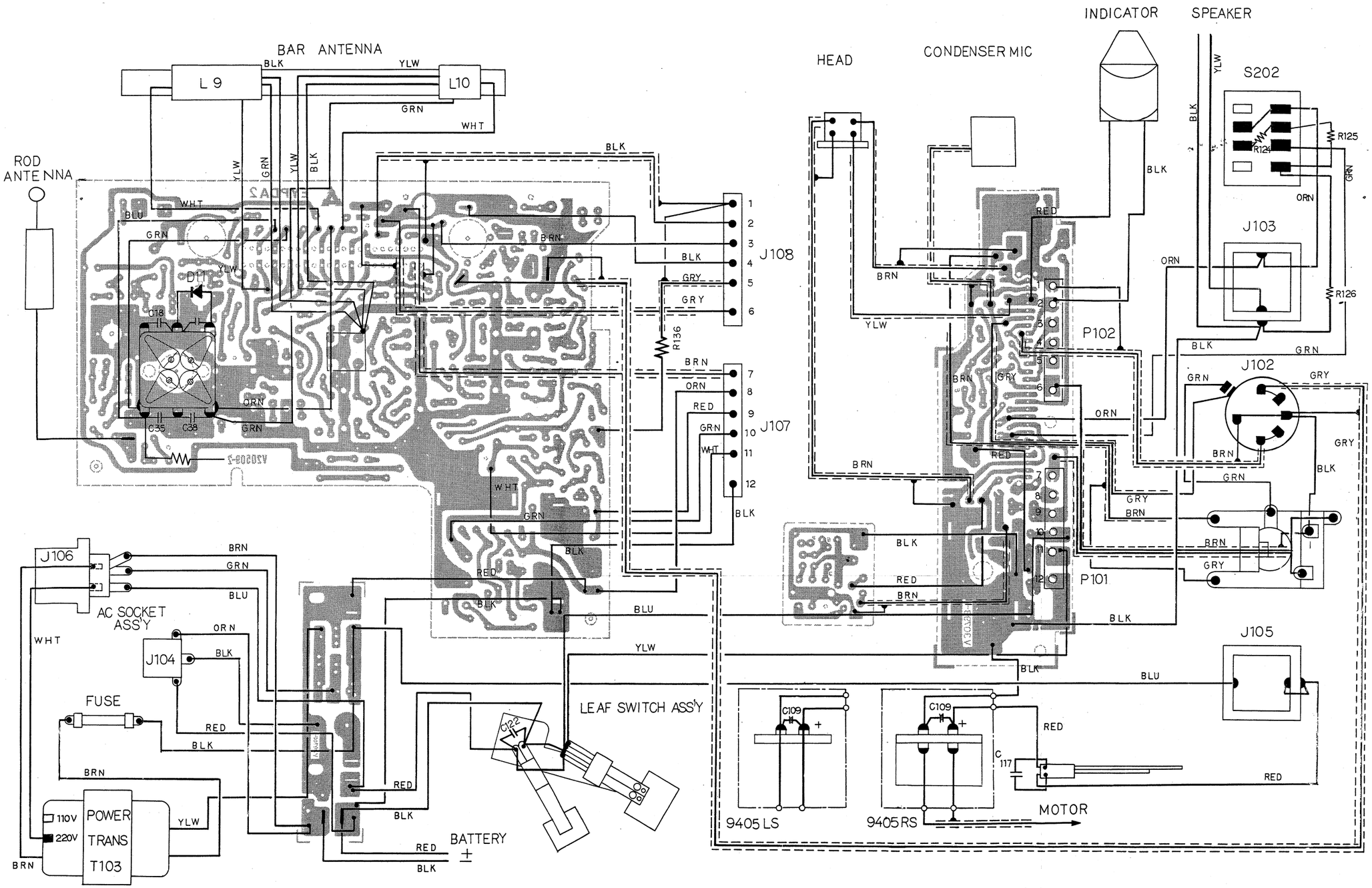


Fig. 30

DISASSEMBLY DIAGRAM OF CASSETTE MECHANISM

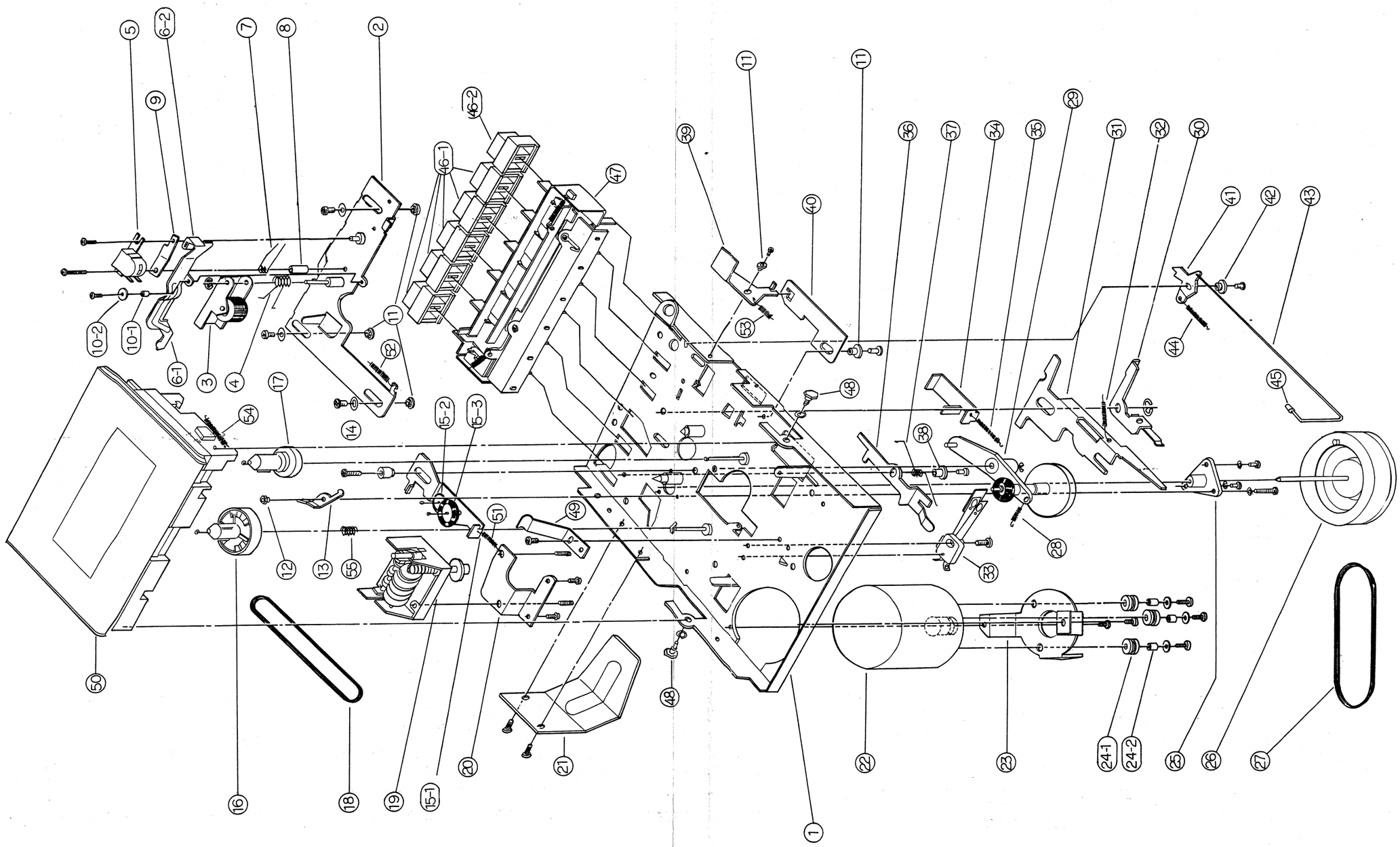
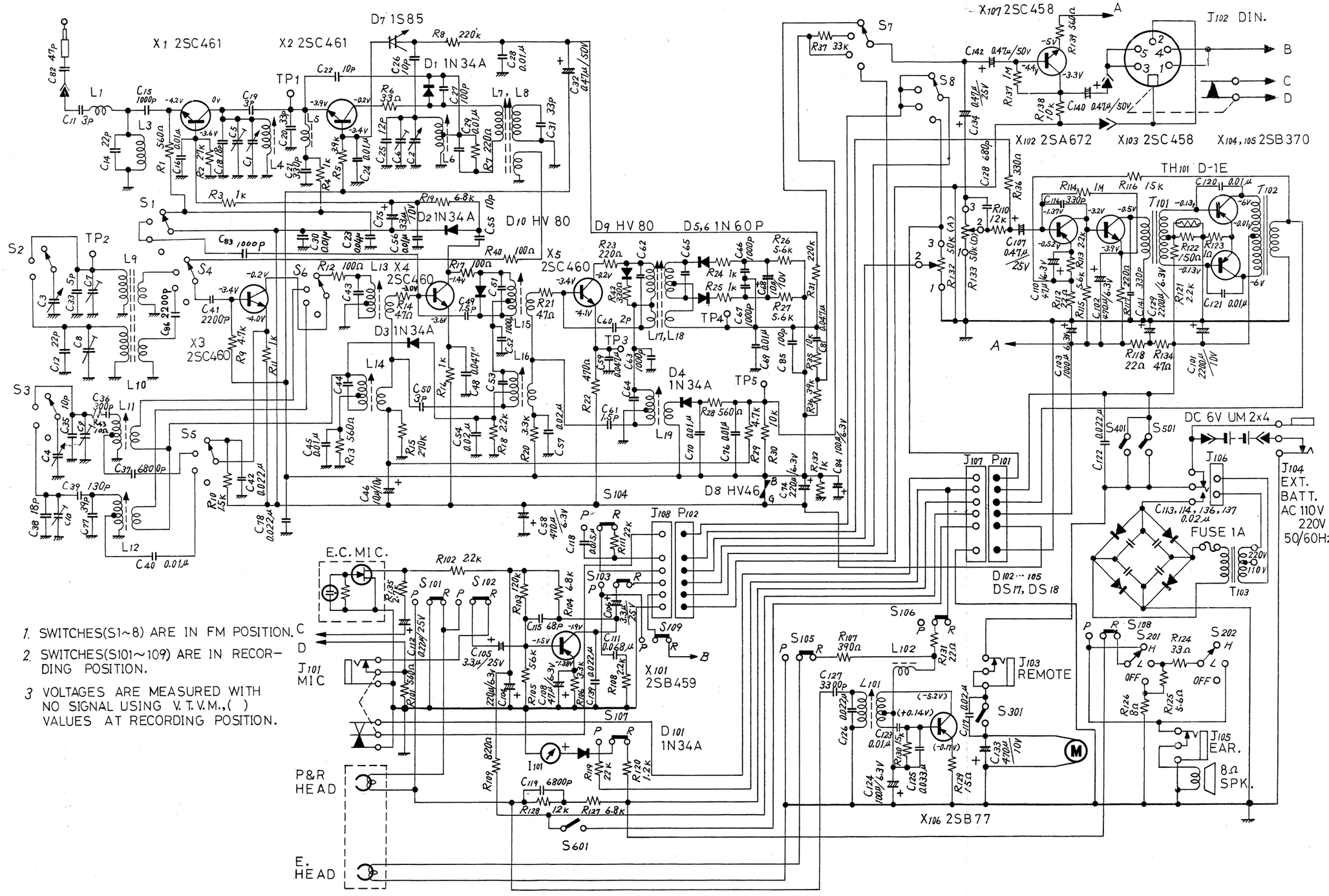


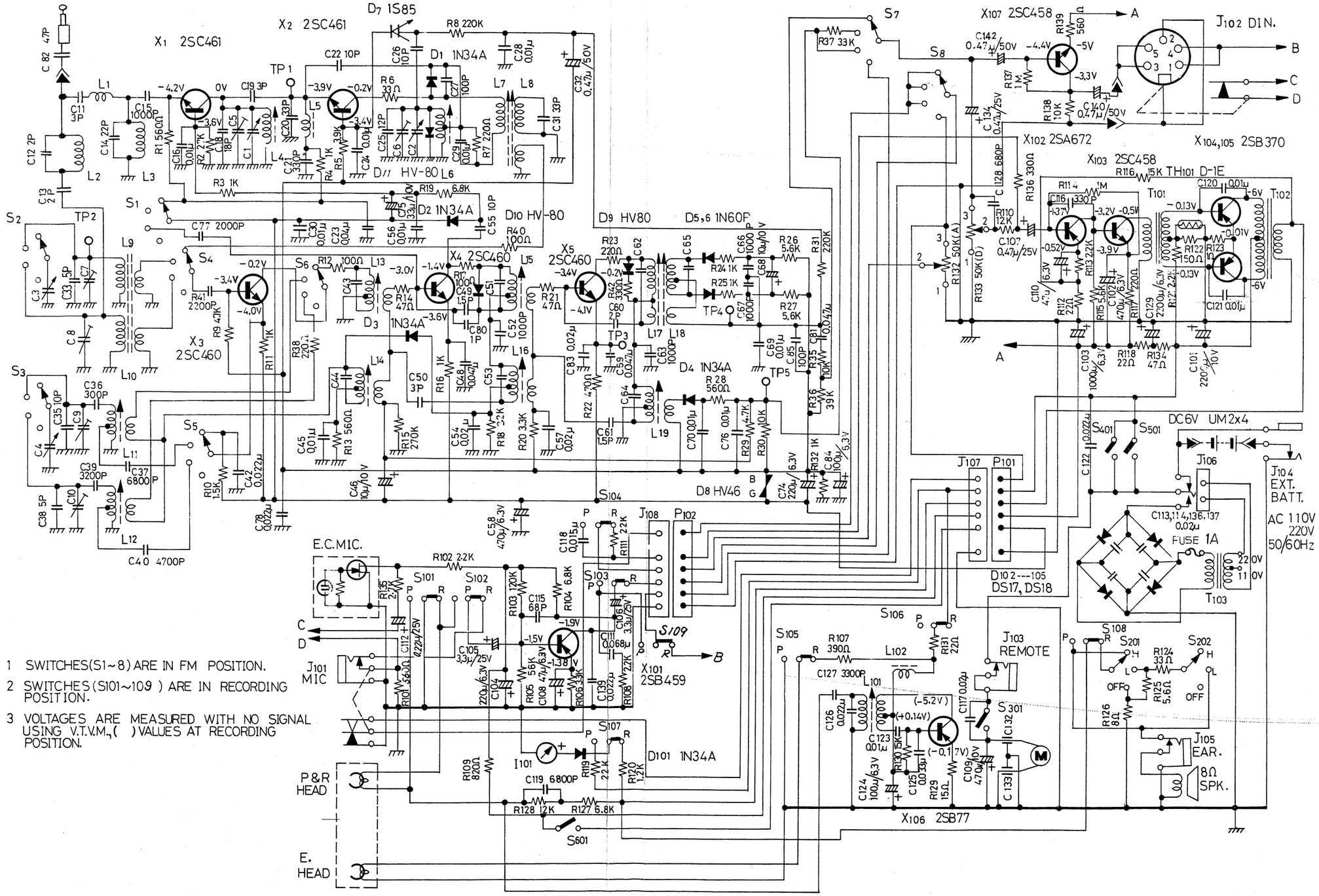
Fig. 31

SCHEMATIC DIAGRAM OF 9405LS



1. SWITCHES(S1~8) ARE IN FM POSITION.
2. SWITCHES(S101~109) ARE IN RECORDING POSITION.
3. VOLTAGES ARE MEASURED WITH NO SIGNAL USING V.T.V.M.,( ) VALUES AT RECORDING POSITION.

SCHEMATIC DIAGRAM OF 9405RS



1 SWITCHES(S1~8) ARE IN FM POSITION.

2 SWITCHES(S101~109) ARE IN RECORDING POSITION.

3 VOLTAGES ARE MEASURED WITH NO SIGNAL USING V.T.V.M.,( ) VALUES AT RECORDING POSITION.